Original/Duplicate/Triplicate
CONTRACT CERTIFICATE
(For Other Works)

No: First and Final Bill Date.....20

Division: **Project** Sub-Division: **Project Sub Division**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Schedule Docket No. Head of Account: Sub Divisional **Work Code: 004-20-000005** Est.Cost-**195.00 Lakhs**

Name of Work: **Balance Works to Hoysala Stadium and Construction of Samudaya Bhavana at Judicial Layout in Ward No.4**

Name of Contractor and Full Address: **Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.** Date: **19-02-2020**

Reference to Agreement No: **EE(Project)/Ynk Zone/WO/157/2019-20**

Certified that the measurements were taken by me on 25.09.2020 and recorded of Pages 222125 to 139 of measurement Book No. 12/2018-19 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on 25.09.2020 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within		
2)	Deduct amount to be held in reserve being .....percent Rs.....		
3)	" Balance		
4)	Deduct Payment:		
	a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... towards cash advance recovery of	Amount adjusted	
	b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.		
5)	Balance being unpaid value of work done held in reserve.		
6)	Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	unadjustments items.	
7)	Net amount due to or from Contractor		
8)	Advance to Contractor for materials brought to site (as detailed) within.		
9)	Value of Government materials supplied.	Total amount adjusted -	

Contractor's Signature

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

(For use in the Office)

Witness
1.
2.
Dated Signature of Contractor
Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....

Stamp

Head of Account.....3590.....
Audited & Admitted for Rs.....2007680.....
Passed for Rs.....19258436-00.....
.....
Paid To.....Onkarappa. H.V.....
By Adjustment Rs.....818364.00.....

Executive Engineer

Initials of Officer making payment

Scanned by TapScanner

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF WORK : Balance works to Hoysala stadium and construction of Samudaya Bhavana at judicial layout in ward no.04

Agency	Sri.H.V.Onkarappa, #27, Taralabalu Enclave, Near Police Station, Yelahanka, Bangalore-64.

ABSTRACT

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
1	Supply and fixing of single skin kalzip roofing systems of 65/400, 0.9mm thick Aluminium standing seam roof sheets. The sheets comprise of Profiled sheeting of Aluminium self-supported standing seam roof system manufactured from Aluminium alloy AA 3004, minimum material thickness of 0.9mm and PVDF finishing RAL 9006 on the exposed surface with ST clips and necessary accessories. Structure: (i) Supplying, cutting, bending and fabricating hot rolled plates, sag rods, brackings and connection bolts to form a column, truss with base plates and purlins. (ii) Erection of the above truss work structure at required height. (iii) Providing and applying one coat of red oxide primer and two coats of synthetic enamel paint. The scope of work includes a) Design, Engineering, Fabrication and erection of steel structure, roof sheeting and facade system. b) Supply and installation of flashing, capping, screws and all other necessary accessories.	Sqm	348.08	0.00	15773.25	0.00	348.08	15773.25	5490272.25	348.08	5490272.25
2	Removing and resetting footpath slab (P.no.270,I no.37.56 of P&IWTD SR 2018/19)	Sqm	396.72	0.00	223.36	0.00	396.72	223.36	88609.57	396.72	88609.57
3	KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. (P No. 143/ Item No. 19.1/PWD SR 2018-19)	Cum	133.89	0.00	147.39	0.00	133.89	147.39	19734.75	133.89	19734.75
4	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate)	Sqm	198.00	0.00	2453.38	0.00	198.00	2453.38	485769.75	198.00	485769.75

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
5	b)Providing and laying in position reinforced cement concrete of Design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70 cum and fine aggregtes @ 0.47cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafirmed-2008 at machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications.(P.No.14, I.No. 4.10 of PWD SR 2018-19)	Cum	0.81	0.00	6589.55	0.00	0.81	6589.55	5337.54	0.81	5337.54
6	Providing T.M.T. steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(P.No.18, I.No. 4.46.2 of PWD SR 2018-19) (Quantity Upto 125%)	MT	0.60	0.00	80460.12	0.00	0.60	80460.12	48276.07	0.60	48276.07
	Quantity Above 125%	MT	4.44				4.44	69562.80	309020.93	4.44	309020.93
7	Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, post and struts, square rectangular polygon in plan including cost of all materials, labour complete as per specifications.(P.No.16, I.No.4.32of PWD SR 2018-19)	Sqm	9.00	0.00	517.01	0.00	9.00	517.01	4653.05	9.00	4653.05
8	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. Specification No. KBS 4.6.2 (P.No.16, I.No.4.29 of PWD SR 2018-19) (Quantity Upto 125%)	Sqm	12.86	0.00	453.51	0.00	12.86	453.51	5833.32	12.86	5833.32
	Quantity Above 125%	Sqm	227.96				227.96	432.00	98477.64	227.96	98477.64

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
9	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. zand lift upto 1.5m. Including cost of all labour complete as per specifications allow 60% of rate considered under item KSRB 2.3 (P.No.7, I.No.2.11 of PWD SR 2018-19)	Cum	19.43	0.00	137.19	0.00	19.43	137.19	2665.25	19.43	2665.25
10	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.6 of PWD SR 2018-19)	Cum	137.11	0.00	6147.38	0.00	137.11	6147.38	842877.29	137.11	842877.29
11	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum, with superplastisiser @3lts confirming to IS 9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintles, retaining walls, return walls, walls (any thickness) including attached pilasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications.(P.No.14, I.No.4.11 of PWD SR 2018-19) (Quantity Upto 125%)	Cum	2.25	0.00	6416.08	0.00	2.25	6416.08	14436.19	2.25	14436.19
	Quantity Above 125%	Cum	57.18				57.18	6111.72	349468.15	57.18	349468.15

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
12	KSRB 14.6-2 :Providing and laying heavy duty cobble stones 75mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No. 103, I.No. 14.7 of CSR 2018-19)	Sqm	58.87	0.00	1258.50	0.00	58.87	1258.50	74090.43	58.87	74090.43
13	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 (P.No.27, I.No.5.26.1 of PWD SR 2018-19)	Sqm	241.88	0.00	1090.70	0.00	241.88	1090.70	263813.11	241.88	263813.11
	Quantity Above 125%	Sqm	146.02				146.02	1038.96	151706.81	146.02	151706.81
14	KSRB 6.1: Providing and constructing burnt brick masonry for basement and superstructure with approved quality of non-modular bricks of standard size of class designation 3.5 Newton per sqm with cement mortar 1:8 including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2 (P.No.29, I.No.6.2 of PWD SR 2018-19)	Cum	0.00	0.00	6943.29	0.00	0.00	6943.29	0.00	0.00	0.00
15	KSRB 12-6.1 : Providing 20mm square M.S footrest and fixing in manhole with M 10 cement concrete block of 20x20x10cms, using 20mm and down size metal of size including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 12.4.6 (P.No.75, I.No.11.44 of PWD SR 2018-19)	No	0.00	0.00	312.92	0.00	0.00	312.92	0.00	0.00	0.00

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
16	KSRB15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P.No.115, I.No.15.9 of PWD SR 2018-19) (Quantity Upto 125%)	Sqm	791.40	0.00	239.23	0.00	791.40	239.23	189325.83	791.40	189325.83
17	KSRB 15.10.1 : Providing white washing to new wall surface in two coats with lime of approved quality, to give an even shade including cost of materials, labour, complete as per specifications.(P.No.117, I.No.15.38 of PWD SR 2018-19) (Quantity Upto 125%)	Sqm	634.60	0.00	13.61	0.00	634.60	13.61	8633.99	634.60	8633.99
	Quantity above125%	Sqm	158.34				158.34	12.96	2052.12	158.34	2052.12
18	KSRB 15-15.3 : Providing and applying painting in one coat with plastic emulsion paint of approved brand and manufacture on wall surface to give an even approved shade after throughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications.(P.No.120, I.No.15.52.1 of PWD SR 2018-19)	Sqm	0.00	0.00	63.49	0.00	0.00	63.49	0.00	0.00	0.00
19	KSRB 13-11.1 : Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity) Specification No. KBS 13.22 (P.No.96, I.No.13.78 of PWD SR 2018-19)	No	2.00	0.00	7741.48	0.00	2.00	7741.48	15482.95	2.00	15482.95
20	KSRB 7.9: Providing and fixing M.S Grill work for windows and ventilators using M.S flats or M.S fsquare rods or combination of M.S flat and square rods as per approved deisgn, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materail, fixtures, labour and HOM of machinery complete as per specification. Specification No:KBS 7.12 (P.No:34 Items No:7.9 of PWD SR 2018-19)	kg	136.08	0.00	107.71	0.00	136.08	107.71	14657.11	136.08	14657.11

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
21	Providing and fixing M.S.Grill over existing compound wall as per Chief Architect drawing No. 12686, using 16mm x 16mm M.S.Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification. (P.No.44, I.No.7.36 of PWD SR 2018-19)	Sqm	187.50	0.00	6087.29	0.00	187.50	6087.29	1141366.18	187.50	1141366.18
	Quantity Above 125%	Sqm	85.82				85.82	5798.52	497611.59	85.82	497611.59
22	KSRB 9.4-4 : Providing WHITE Sal wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications. Specification No. KBS 9.33. (P.No.53, I.No.9.13 of PWD SR 2018-19)	Cum	0.00	0.00	68648.35	0.00	0.00	68648.35	0.00	0.00	0.00
23	KSRB 9-7.3 :Providing and fixing in position fully panelled Mathi/ Nandi wood shutters for doors, styles and rails of 30mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34 (P.No.54, I.No.9.22 of PWD SR 2018-19)	Sqm	0.00	0.00	4327.65	0.00	0.00	4327.65	0.00	0.00	0.00

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
24	KSRB 15-17.3 : Applying priming coat over new wood surface and / or wood based surface after brushing with aluminium paint primer, water resistant including preparing the surface after thoroughly cleaning oil, grease, dirt and foreign matter, sand papering and knotting ready mix paint including cost of materials, labour, complete as per specifications.(P.No.121, I.No.15.57 of PWD SR 2018-19)	Sqm	0.00	0.00	47.62	0.00	0.00	47.62	0.00	0.00	0.00
25	KSRB 15-17.19: Providing and applying painting one coat (excluding priming coat) on previously painted wood surface and / or wood based surface with black japan paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, including cost of materials, labour, complete as per specifications.(P.No.123, I.No.15.71 of PWD SR 2018-19)	Sqm	0.00	0.00	63.49	0.00	0.00	63.49	0.00	0.00	0.00
26	KSRB 15-17.20: Applying additional one coat (excluding priming coat) on previously painted wood surface and / or wood based surface with black japan paint to give an even shade after cleaning the surface of all dirt, dust and foreign matter, including cost of materials, labour, complete as per specifications.(P.No.123, I.No.15.72 of PWD SR 2018-19)	Sqm	0.00	0.00	56.69	0.00	0.00	56.69	0.00	0.00	0.00

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
27	Providing and fixing in position in cement concrete 1:3:6 Steel glazed windows and Ventilators side hung/top hung 2/3 openable 1/3 fixed as per approved drawings using Z angles of 25x33x3mm, weighing 1.419kg/m both for outer and inner frames and central mullion section of size 25x46x3 mm, weighing 2.28kg/m all duly providing T section 19x19x3 mm weighing 0.839kg/m for glazing of windows, not more than 34 cms, C to C including providing and fixing 4mm, thick reeded glass with teakwood beading of required size, all steel sections should confirm to I.S. 7452:1990, 4nos. of holdfasts of approved size, section should be cut to length welded and grinded electrically subdividing frames of unit shall be tenoneed and revetted into the frames electrically. All the steel surface shall be throughly cleaned free of rust and painted with one coat of anti-corrosive paint and finishing two coats of ready mix paint of approved colour and make including cost of materials, fixtures, labour charges and HOM of machinery complete as per specifications.(P.No.34, I.No.7.8 of PWD SR 2018-19)	Sqm	0.00	0.00	3773.23	0.00	0.00	3773.23	0.00	0.00	0.00
28	Providing and fixing 12.5mm to 25 mm expanded metal work of 14 gauge with Mathi or Nandi wood patties of 50 mm x 12 mm size, including two coats approved paint etc., complete. (Including cost of screws). with weld mesh 75 mm X 25 mm 6G X 10G.(P.No.270, I.No.37.55 of PWD SR 2018-19)	Sqm	65.23	0.00	1681.40	0.00	65.23	1681.40	109677.83	65.23	109677.83
29	Providing and fixing 4mm thick glass panes to steel windows including T.W. beading of 10 mm thick and 2 coats of approved paints (P.No.267, I.No.37.16 of PWD SR 2018-19)	Sqm	28.83	0.00	897.96	0.00	28.83	897.96	25888.10	28.83	25888.10
30	KSRB 15-18.1 : Applying red lead ready mix priming coat over new steel or other metal surface including preparing the surface after throughly cleaning oil, grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand papers including cost of materials, labour, complete as per specifications..(P.No.123, I.No.15.73 of PWD SR 2018-19) (Quantity Upto 125%)	Sqm	15.00	0.00	46.49	0.00	15.00	46.49	697.28	15.00	697.28
	Quantity Above 125%	Sqm	553.21				553.21	44.28	24496.36	553.21	24496.36

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
31	Providing and laying plat form using prepolished, water cut / gang saw 40mm thick telephonic Black Granite. laid on existing vertical -supports and fixing in CM 1:3 proportion. Including cutting to required shape, pattern with paper joints, including full rounding for nosing, finished with cement mortar, pointed with colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm x 12mm grooves in joints including curing. (P.No. 110, LNo. 14.52 of PWD SR 2018-19)	Sqm	42.98	0.00	3996.59	0.00	42.98	3996.59	171761.39	42.98	171761.39
32	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P.No. 266, LNo. 37.2 of PWD SR 2018-19)	Mtr	0.00	0.00	973.92	0.00	0.00	973.92	0.00	0.00	0.00
33	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (P.No. 266, LNo. 37.3 of PWD SR 2018-19)	Sqm	0.00	0.00	810.66	0.00	0.00	810.66	0.00	0.00	0.00
34	Providing & Fixing Name board (Lump Sum)	No	0.00	0.00	174966.67	0.00	0.00	174966.67	0.00	0.00	0.00
35	Providing Dust Bins (MR)	No	0.00	0.00	5249.00	0.00	0.00	5249.00	0.00	0.00	0.00

Duplicate/Triplicate

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
36	LED Street light/Flood Light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.LED Light fixture with	No	20.00	0.00	45141.40	0.00	20.00	45141.40	902828.00	20.00	902828.00

Triplicate

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto Date	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
37	LED Street light/Flood Light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools.LED Light fixture with	No	72.00	0.00	56689.20	0.00	72.00	56689.20	4081622.40	72.00	4081622.40

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
38	Supplying of LED Floodlight/High Baylight with .....W System Power consumption pressure die cast aluminum housing with powder coating with IP 65 protection. 1, 200-275V voltage with electronic Driver, PF>0.9, should meet ANSI 2G Vibration test, Compliance to UL/CE with Class I. System rating shall be 50K hrs. @ Lumen maintenance of 70%, system efficacy > 80lm/w. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 5 Years against any manufacturing defect working under standard	No	45.00	0.00	24751.13	0.00	45.00	24751.13	1113801.06	45.00	1113801.06

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Cumulative	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
39	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition LED modular down light 2'x2'-36 watts SR No:26/4.33.2	No	4.00	0.00	8652.45	0.00	4.00	8652.45	34609.81	4.00	34609.81
40	Supply of 2'x2' LED recessed luminaire with ...Watts system wattage. Housing shall be with pressure die cast aluminum alloy with corrosion proof resistant polyester power coated. Driver operates with voltage range from 100V to 270V 50/60 Hz with short circuit, overload & mis-wiring protection. Lumen Maintenance of 70% at 50000 Hrs. Injection moulded poly carbonate diffuser for better mechanical stability, light transmission & avoid pot hole effect. Junction temperature shall be < 70 degree Celsius. Driver is on constant current driver @ 0.06A with PF > 0.92 with line voltage @ 220-240V @ 50/60Hz, driver efficiency > 85% & THD<15%. LED Efficiency > 130 lm/W at 1W & Fixture Efficiency >75lm/w with CRI > 75 with injection moulded Polycarbonate lens with < 80mm depth. 5 years Warranty against any manufacturing defect working under standard electrical condition LED modular down light 2'x2'-55 watts SR No:26/4.33.3	No	2.00	0.00	9839.78	0.00	2.00	9839.78	19679.55	2.00	19679.55

Division: Project

Bill Received Nr

Schedule Do

Name of W

Ward Nr

Name o

Bangs

Ref

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total Upto...	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
41	Fabricating, supplying and erecting swaged tubular pole of height ...Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S. base plate of suitable size welded at the bottom of the pole(as per IS) and 40mm dia GI / flexible PVC pipe of 1 mtr length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole/200x160x98mm for remaining length of pole with front opening cover, with locking arrangements and suitable capacity MCB / DP switch, The pole shall be erected in cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713 - 7. Erection of heavy duty pole on Footpath / median 10Mt (5Mt Hb,165.1mm dia 4.85mm thick x3M Hm, 139.7mm dia 4.50mm thick x 2M Ht,114.3mm dia 3.65mm thick) as per IS 410 SP 47 SR No:34/5.13.1.2	No	0.00	0.00	19946.20	0.00	0.00	19946.20	0.00	0.00	0.00
42	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron.. and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint.40x40x6mm SR No:49/6.39.1 (Quantity Upto 125%)	No	188.00	0.00	276.10	0.00	188.00	276.10	51906.31	188.00	51906.31
	Quantity Above 125%	No	10.00				10.00	276.10	2761.00	10.00	2761.00
43	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete.16SWG SR No:49/6.40.2	Sqcm	0.00	0.00	0.35	0.00	0.00	0.35	0.00	0.00	0.00

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	
44	Supplying and fixing Moulded Case Circuit Breaker (MCCB) over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Icu = Ics) FOUR POLE100Amps 25kA.SR No:46/6.13.B.6 (Quantity Upto 125%)	No	3.00	0.00	6098.29	0.00	3.00	6098.29	18294.86	3.00	18294.86
	Quantity Above 125%	No	2.00				2.00	6098.29	12196.58	2.00	12196.58
45	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.5-32Amps SP SR No:47/6.16.1	No	20.00	0.00	438.82	0.00	20.00	438.82	8776.33	20.00	8776.33
46	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 4 core 16 sqmm SR No:55/7.4.5	Mtrs	1096.00	0.00	173.74	0.00	1096.00	173.74	190421.12	1096.00	190421.12
47	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A. 3.5 core 35 sqmm SR No:55/7.4.6	Mtrs	245.00	0.00	214.16	0.00	245.00	214.16	52469.00	245.00	52469.00
48	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. 6 sqmm to 16 sqmm SR No:61/7.8.1	Mtrs	1096.00	0.00	11.34	0.00	1096.00	11.34	12426.27	1096.00	12426.27
49	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.In existing trench/duct. 25 sqmm to 75 sqmm SR No:61/7.8.2	Mtrs	245.00	0.00	17.01	0.00	245.00	17.01	4166.66	245.00	4166.66

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present			Total	
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
50	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary) SR No:61/7.9.1	Mtrs	198.00	0.00	81.88	0.00	198.00	81.88	16213.11	198.00	16213.11
51	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 1)1 sqmm.SR No:8/2.6.1	Mtrs	0.00	0.00	11.29	0.00	0.00	11.29	0.00	0.00	0.00
52	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 1.5 sqmm SR No:8/2.6.2	Mtrs	597.00	0.00	16.69	0.00	597.00	16.69	9965.02	597.00	9965.02
53	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B. 2.5 sqmm SR No:8/2.6.3	Mtrs	300.00	0.00	26.14	0.00	300.00	26.14	7842.01	300.00	7842.01
54	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand Copper conductor single core wire in open or concealed system of wiring as per IS-694:1990 & confirming to GTP of GROUP -B..4 sqmm SR No:8/2.6.4 Quantity Upto 125%	Mtrs	250.00	0.00	38.11	0.00	250.00	38.11	9526.94	250.00	9526.94
	Quantity Above 125%	Mtrs	844.00				844.00	38.11	32162.93	844.00	32162.93
55	Supplying heavy gauge PVC conduit pipe …….dia .....mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws.19/20mm dia 2mm thick SR No:2/1.1.1	Mtrs	298.00	0.00	56.69	0.00	298.00	56.69	16893.38	298.00	16893.38
56	Supplying and fixing of class A (medium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV.40mm SR No:62/7.1	Mtrs	0.00	0.00	362.18	0.00	0.00	362.18	0.00	0.00	0.00

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present				
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	
57	Supply and Installation / Fixing / Provision of Pole box with HRC Fuse / MCB provision and suitable connector / terminal for 3 Ph / 1 Ph connections with Loop-In & Loop-Out terminals for 10 Sqmm / 25 Sqmm 3.5 C Al/Ar / Cu/Ar Cable and branch out 2.5 Sqmm 2 core Al/Cu PVC Insulated cable, enclosed in a Thermoplastic, Polystyrene enclosure, which should be shock proof, safe, IP65(Weather Proof), rust proof, dust proof, water proof having Internally Embedded Gasket with provision for cable entry through IP65 Thermoplastic, polyamide glands and/or grommets 200mmx200mmx98mm SR No 58/6.41.1	Mtrs	30.00	0.00	2286.46	0.00	30.00	2286.46	68593.93	30.00	68593.93
58	Providing and Supplying Submersible single Phase 2.0 HP /1.5 KW 30 Stage Capacity Company for ATALANTA / SUGUNA / CRI / KIRLOSKAR / OTHER EQUIVALENT PUMPS.(KPWD SR 2018-19, P.No:XLIII, Sl.No.:17)	No	0.00	0.00	23344.61	0.00	0.00	23344.61	0.00	0.00	0.00
59	Electrification & Automatic On/Off Sensor system	No	0.00	0.00	62988.00	0.00	0.00	62988.00	0.00	0.00	0.00
	EIRL ITEM										
E1	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation etc.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)	Nos	70.00	0.00	0.00	0.00	70.00	440.64	30844.80	70.00	30844.80
E2	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Iitem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)	Sqm	12.60	0.00	0.00	0.00	12.60	86.40	1088.64	12.60	1088.64

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present				
				Qnty	Rate	Amount	Qnty	Rate	Amount		
E3	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon Glazed primer with antifungal paint of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.	Sqm	4377.25	0.00	0.00	0.00	4377.25	194.40	850938.27	4377.25	
E4	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation.	Sqm	11.11	0.00	0.00	0.00	11.11	3252.96	36130.63	11.11	36130.63
E5	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990 3C X 1.5Sq.mm	mtrs	650.00	0.00	0.00	0.00	650.00	55.00	35750.00	650.00	35750.00
E6	Supplying PVC/GI flexible conduit pipe...mm dia fixing on surface over inverted tapered wooden plugs or phill plugs or rawl plugs and clamped using heavy gauge saddles at an interval of 300mm using NF screws and on either end of the pipe terminated completely. 32mm	mtrs	250.00	0.00	0.00	0.00	250.00	35.00	8750.00	250.00	8750.00
E7	Wiring for lighting/power circuit using one of PVC insulated 1100V grade, stranded Aluminium wire single core in open or concealed system of wiring.10 sqmm	mtrs	500.00	0.00	0.00	0.00	500.00	17.00	8500.00	500.00	8500.00

Scanned by TapScanner

Item no	Description of work	Unit	Approved Modified BOQ Qnty	Previous			Present				
				Qnty	Rate	Amount	Qnty	Rate	Amount	Qnty	Amount
E8	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.95 sqmm Long Barrel	mtrs	32.00	0.00	0.00	0.00	32.00	145.00	4640.00	32.00	4640.00
E9	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.	Each	135.00	0.00	0.00	0.00	135.00	175.00	23625.00	135.00	23625.00
E10	3x95+1x70+1x16 Sqmm Street light (Insulated messenger cum Neutral)	Mtrs	98.00	0.00	0.00	0.00	98.00	435.62	42690.96	98.00	42690.96
E11	Stringing of 11kV grade aerial bunched 3 core cable of XLPE insulation of size 3x95 Sqmm+1x70 Sqmm with bare/insulated messenger wire	Mtrs	98.00	0.00	0.00	0.00	98.00	22.47	2201.96	98.00	2201.96
E12	Hiring of Cranes 35 tonnes	Hrs	75.00	0.00	0.00	0.00	75.00	474.88	35616.00	75.00	35616.00
E13	Supply and Erection of LT MAZE SL HO 0.72W Blue Colour Strip Lighting	Mtrs	85.00	0.00	0.00	0.00	85.00	3450.00	293250.00	85.00	293250.00
E14	Fabrication,Supply and Erection of Face- ACP signage with projected Acrylic letter of 2.5" Lighting- signage LED module and IP66 & power supply With 6 KV surge protection,IP67. Frame-MS Frame of 1 inch thick & GI sheet for back cover of 28 Guage side panel ACP of approxmate size 12x5 Feet.	Sq feet	120.00	0.00	0.00	0.00	120.00	1750.00	210000.00	120.00	210000.00
	Total Amount With GST								11456960.16		11456960.16
	Total Amount without GST								7250915.18		7250915.18
	Grand Total Amount without GST								18707875.35		18707875.35
	12% GST								1374835.22		1374835.22
	Grand Total Amount With GST								20082710		20082710

Certificate

1.The Work executed by the contractor is found satisfactory
2. The contractor has removed the debris from the work spot
3. There are no departmental issues for this work

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

Executive Engineer

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

Scanned by TapScanner